

# Sample Data Structures Questions

## Chapter 1

### The Phases of Software Development

Data Structures and Other Objects Using C++

by [Michael Main](#) and [Walter Savitch](#)

Second Edition ISBN 0-201-70297-5, Softcover, 816 pages, 2000

#### The Purpose of These Questions

These are typical exam questions from Chapter 1 of the textbook. These exact questions might not be on your exam, but if you research and find the right answers to these questions, that should be good preparation for a real exam. (It's also possible that some of this material was not covered in your class.) At the moment there are **11** short answer questions and **19** multiple choice questions in this file.

#### Short Answers

1. Describe one good method for precisely specifying *what* a function must do, without indicating *how* the function accomplishes its work. Provide an example, using a small function.
2. What is a precondition? What is a postcondition?
3. It's recommended that the precondition be checked at the start of a function. What's a good approach if a function discovers that its precondition is not true?
4. Is it always possible for a function to check that its precondition is true?
5. Suppose that you accidentally call a correctly implemented function, but the precondition is false. Is the function guaranteed to halt with a nice message? Is the function allowed to erase everything on your hard drive?
6. Write the first few lines of this function so that it uses the assert facility to check its precondition:

```
void exam(int i)
// Precondition: i is not equal to 42.
...
```

7. Give a concise formula that gives the approximate number of digits in a positive integer. The integer is written in base 10.
8. Why is the order of an algorithm generally more important than the speed of the processor?
9. Convert each time formula to the best possible big-O notation. Do not include any spurious constants in your big-O answer.

Short Answers  
Section 1.1  
Specification and Design

Short Answers  
Section 1.2  
Running Time Analysis

Time Formula

Big-O

# Sample Data Structures Questions Chapter 6

**Byron K. Williams, James D.  
Nichols, Michael James Conroy, Michael  
J. Conroy**

## **Sample Data Structures Questions Chapter 6:**

**Data Structures** Anuradha A. Puntambekar, 2020-12-01 The book has been developed to provide comprehensive and consistent coverage of both the concepts of data structures as well as implementation of these concepts using C programming The book utilizes a systematic approach wherein each data structure is explained using examples followed by its implementation using a programming language It begins with the introduction to data types In this an overview of various types of data structures is given and asymptotic notations best case worst case and average case time complexity is discussed The book then focuses on the linear data structures such as arrays stacks queues and linked lists In these units each concept is followed by its implementation and logic explanation part The book then covers the non linear data structures such as trees and graphs These data structures are very well explained with the help of illustrative diagrams examples and implementations The text book then covers two important topics hashing and file structures While explaining the hashing various hashing methods and collision handling techniques are explained with necessary illustrations and examples File structures are demonstrated by implementing sequential index sequential and random file organization Finally searching and sorting algorithms their implementation and time complexities are discussed The sorting and searching methods are illustrated systematically with the help of examples The explanation in this book is in a very simple language along with clear and concise form which will help the students to have clear cut understanding of the subject

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*Computing* Roger Legg, 2004 These New editions of the successful highly illustrated study revision guides have been fully

updated to meet the latest specification changes Written by experienced examiners they contain in depth coverage of the key information plus hints tips and guidance about how to achieve top grades in the A2 exams

**Data Structures and Algorithms in Java** Robert Lafore,2017-09-06 Data Structures and Algorithms in Java Second Edition is designed to be easy to read and understand although the topic itself is complicated Algorithms are the procedures that software programs use to manipulate data structures Besides clear and simple example programs the author includes a workshop as a small demonstration program executable on a Web browser The programs demonstrate in graphical form what data structures look like and how they operate In the second edition the program is rewritten to improve operation and clarify the algorithms the example programs are revised to work with the latest version of the Java JDK and questions and exercises will be added at the end of each chapter making the book even more useful Educational Supplement Suggested solutions to the programming projects found at the end of each chapter are made available to instructors at recognized educational institutions This educational supplement can be found at [www.prenhall.com](http://www.prenhall.com) in the Instructor Resource Center

**Learn Data Structures and Algorithms with Golang** Bhagvan Kommadi,2019-03-30 Explore Golang s data structures and algorithms to design implement and analyze code in the professional setting Key FeaturesLearn the basics of data structures and algorithms and implement them efficientlyUse data structures such as arrays stacks trees lists and graphs in real world scenariosCompare the complexity of different algorithms and data structures for improved code performanceBook Description Golang is one of the fastest growing programming languages in the software industry Its speed simplicity and reliability make it the perfect choice for building robust applications This brings the need to have a solid foundation in data structures and algorithms with Go so as to build scalable applications Complete with hands on tutorials this book will guide you in using the best data structures and algorithms for problem solving The book begins with an introduction to Go data structures and algorithms You ll learn how to store data using linked lists arrays stacks and queues Moving ahead you ll discover how to implement sorting and searching algorithms followed by binary search trees This book will also help you improve the performance of your applications by stringing data types and implementing hash structures in algorithm design Finally you ll be able to apply traditional data structures to solve real world problems By the end of the book you ll have become adept at implementing classic data structures and algorithms in Go propelling you to become a confident Go programmer What you will learnImprove application performance using the most suitable data structure and algorithmExplore the wide range of classic algorithms such as recursion and hashing algorithmsWork with algorithms such as garbage collection for efficient memory management Analyze the cost and benefit trade off to identify algorithms and data structures for problem solvingExplore techniques for writing pseudocode algorithm and ace whiteboard coding in interviewsDiscover the pitfalls in selecting data structures and algorithms by predicting their speed and efficiencyWho this book is for This book is for developers who want to understand how to select the best data structures and algorithms that will help solve coding problems Basic Go

programming experience will be an added advantage      Algorithms and Data Structures for Massive Datasets Dzejl Medjedovic,Emin Tahirovic,2022-07-05 In Algorithms and Data Structures for Massive Datasets you will learn Probabilistic sketching data structures for practical problems Choosing the right database engine for your application Evaluating and designing efficient on disk data structures and algorithms Understanding the algorithmic trade offs involved in massive scale systems Deriving basic statistics from streaming data Correctly sampling streaming data Computing percentiles with limited space resources      **Analysis and Management of Animal Populations** Byron K. Williams,James D. Nichols,Michael James Conroy,Michael J. Conroy,2002-04-17 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations It covers the modeling of population responses to management actions the estimation of quantities needed in the modeling effort and the application of these estimates and models to the development of sound management decisions The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations Integrates population modeling parameter estimation and decision theoretic approaches to management in a single cohesive framework Provides authoritative state of the art descriptions of quantitative approaches to modeling estimation and decision making Emphasizes the role of mathematical modeling in the conduct of science and management Utilizes a unifying biological context consistent mathematical notation and numerous biological examples      *Networking Essentials* Jeffrey S. Beasley,Piyasat Nilkaew,2012 Rev ed of Networking Jeffrey S Beasley      **Database Systems** S. K. Singh,2011 The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application It progresses gradually from basic to advance concepts in database management systems with numerous solved exercises to make learning easier and interesting New to this edition are discussions on more commercial database management systems      **Fundamentals of Geographic Information Systems** Michael N. DeMers,2008-04-04 Locate your place in the exciting field of GIS In existence since 1962 Geographical Information Systems GIS are really coming into their own today And not just in your car s GPS system or your cell phone s tracking capabilities GIS is finding applications throughout science government business and industry from regional and community planning architecture and transportation to public health crime mapping and national defense Michael DeMers s Fundamentals of Geographic Information Fourth Edition brings an already essential text up to date capturing the significant developments in the field and responding to the needs of a diverse set of readers from geographers to students in a host of other fields If you are a non geographer or new to GIS get a quick introduction to the lay of the land of GIS through the new Spatial Learner s Permit section Then join in the excitement of discovery with GIS databases as you absorb the such concepts and skills as digital geographic data and maps GIS data models spatial analysis measurement and classification cartographic modeling and GIS design Responding to both the needs and technical skills of today s students this Fourth Edition Makes concepts accessible to students from a wide range of backgrounds Offers more

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*Marketing in B2b* Hairul Rizad, Abu Bakar, 2015-07-31 This book is for those who are interested to know more about the marketing decision issues and challenges facing by Small and Medium Enterprise SME in business to business setting Here it provides insight to both regulator and practitioner to focus their effort in developing the marketing aspect in SME Previous researchers have agreed that the failure to make accurate marketing decision may have consequences to SMEs The complexity and variation of decision process and its interaction had made this subject less interest among the researcher This book shed out the light of this issue by presenting the exploratory study that combine the qualitative and quantitative approaches Indeed this book constitutes and offers a complete framework that integrates SMEs decision makers characteristics and their interaction with other factors that statistically influence the decision making process The inclusion of SMEs decision makers characteristics addresses the limitations that have been largely ignored by prior study that only stresses on the effect of firm characteristic and networking relationship Finally this book has brought a certain degree of practicality through addressing the role of decision makers characteristics in marketing decision making process

An Introduction to R for Spatial Analysis and Mapping Chris Brunsdon, Lex Comber, 2018-12-10 This is a new edition of the accessible and student friendly how to for anyone using R for the first time for use in spatial statistical analysis geocomputation and digital mapping The authors once again take readers from zero to hero updating the now standard text to further enable practical R applications in GIS spatial analyses spatial statistics web scraping and more Revised and updated each chapter includes example data and commands to explore hands on scripts and coding to exemplify specific functionality self contained exercises for students to work through embedded code within the descriptive text The new edition includes detailed discussion of new and emerging packages within R like sf ggplot tmap making it the go to introduction for all researchers collecting and using data with location attached This is the

introduction to the use of R for spatial statistical analysis geocomputation and GIS for all researchers regardless of discipline collecting and using data with location attached      **Social Network Data Analytics** Charu C. Aggarwal,2011-03-18 Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet Social networks are organized as graphs and the data on social networks takes on the form of massive streams which are mined for a variety of purposes Social Network Data Analytics covers an important niche in the social network analytics field This edited volume contributed by prominent researchers in this field presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario rather than the traditional sociology driven emphasis prevalent in the existing books which do not focus on the unique data intensive characteristics of online social networks Emphasis is placed on simplifying the content so that students and practitioners benefit from this book This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book Data mining database information security electronic commerce and machine learning professionals will find this book a valuable asset as well as primary associations such as ACM IEEE and Management Science      *Machine Learning Using R* Karthik Ramasubramanian,Abhishek Singh,2016-12-22 Examine the latest technological advancements in building a scalable machine learning model with Big Data using R This book shows you how to work with a machine learning algorithm and use it to build a ML model from raw data All practical demonstrations will be explored in R a powerful programming language and software environment for statistical computing and graphics The various packages and methods available in R will be used to explain the topics For every machine learning algorithm covered in this book a 3 D approach of theory case study and practice will be given And where appropriate the mathematics will be explained through visualization in R All the images are available in color and hi res as part of the code download This new paradigm of teaching machine learning will bring about a radical change in perception for many of those who think this subject is difficult to learn Though theory sometimes looks difficult especially when there is heavy mathematics involved the seamless flow from the theoretical aspects to example driven learning provided in this book makes it easy for someone to connect the dots What You ll Learn Use the model building process flow Apply theoretical aspects of machine learning Review industry based case studies Understand ML algorithms using R Build machine learning models using Apache Hadoop and Spark Who This Book is For Data scientists data science professionals and researchers in academia who want to understand the nuances of machine learning approaches algorithms along with ways to see them in practice using R The book will also benefit the readers who want to understand the technology behind implementing a scalable machine learning model using Apache Hadoop Hive Pig and Spark      *Clean Code in C#* Jason Alls,2020-07-17 Develop your programming skills by exploring essential topics such as code reviews

implementing TDD and BDD and designing APIs to overcome code inefficiency redundancy and other problems arising from bad code Key Features Write code that cleanly integrates with other systems while maintaining well defined software boundaries Understand how coding principles and standards enhance software quality Learn how to avoid common errors while implementing concurrency or threading Book Description Traditionally associated with developing Windows desktop applications and games C is now used in a wide variety of domains such as web and cloud apps and has become increasingly popular for mobile development Despite its extensive coding features professionals experience problems related to efficiency scalability and maintainability because of bad code Clean Code in C will help you identify these problems and solve them using coding best practices The book starts with a comparison of good and bad code helping you understand the importance of coding standards principles and methodologies You ll then get to grips with code reviews and their role in improving your code while ensuring that you adhere to industry recognized coding standards This C book covers unit testing delves into test driven development and addresses cross cutting concerns You ll explore good programming practices for objects data structures exception handling and other aspects of writing C computer programs Once you ve studied API design and discovered tools for improving code quality you ll look at examples of bad code and understand which coding practices you should avoid By the end of this clean code book you ll have the developed skills you need in order to apply industry approved coding practices to write clean readable extendable and maintainable C code What you will learn Write code that allows software to be modified and adapted over time Implement the fail pass refactor methodology using a sample C console application Address cross cutting concerns with the help of software design patterns Write custom C exceptions that provide meaningful information Identify poor quality C code that needs to be refactored Secure APIs with API keys and protect data using Azure Key Vault Improve your code s performance by using tools for profiling and refactoring Who this book is for This coding book is for C developers team leads senior software engineers and software architects who want to improve the efficiency of their legacy systems A strong understanding of C programming is required Capital Structure and Profitability Elmar Puntaier,2010 The present study aims to investigate to what extent capital structure has an impact on profitability and closely associated factors due to a series of bankruptcies and bail outs within the last twelve months The analysis refers to firms listed in the S P 500 index on January 2004 and evaluates their performance from 2004 to 2008 The results show strong industry specific characteristics for all factors observed i e gearing profitability liquidity investments and dividends In addition findings indicate a negative effect of higher gearing for almost all ten sectors in respect of the core variables analysed Neither the trade off nor the pecking order theory can be confirmed however more support for the former is found Due to the complexity of capital structure choice regulations have very limited effects that require the need for independent non governmental monitoring agencies to improve transparency and have the authority to intervene if managers act at the expense of public interest **Transnational Alliances in Higher Education** Hana Fehrenbach,2023-07-12

Hana Fehrenbach's book examines organizational level transnational strategic alliances Through the perspectives of dynamic capabilities and neo institutionalism the study explores the interplay of rationales pathways and benefits of transnational alliances over time of leading universities of technology TU9 in Germany Complex inter connected dynamics at the macro i e society meso i e organization and micro levels i e individual are examined in this qualitative study driven by a deductive approach These interrelated dynamics are then reflected in a recursive process model called STANCE which depicts how through these types of alliances institutions of higher education position themselves in single or multiple organizational fields to gain more strategic and social fitness The study is timely considering the paucity of comprehensive and theoretically anchored research on this contemporary phenomenon and the need for policy makers and senior leadership to make evidence based decisions

### **Multilevel and Longitudinal Modeling with IBM SPSS** Ronald H. Heck, Scott L.

Thomas, Lynn N. Tabata, 2013-08-22 This book demonstrates how to use multilevel and longitudinal modeling techniques available in the IBM SPSS mixed effects program MIXED Annotated screen shots provide readers with a step by step understanding of each technique and navigating the program Readers learn how to set up run and interpret a variety of models Diagnostic tools data management issues and related graphics are introduced throughout Annotated syntax is also available for those who prefer this approach Extended examples illustrate the logic of model development to show readers the rationale of the research questions and the steps around which the analyses are structured The data used in the text and syntax examples are available at [www.routledge.com/9780415817110](http://www.routledge.com/9780415817110) Highlights of the new edition include Updated throughout to reflect IBM SPSS Version 21 Further coverage of growth trajectories coding time related variables covariance structures individual change and longitudinal experimental designs Ch 5 Extended discussion of other types of research designs for examining change e g regression discontinuity quasi experimental over time Ch 6 New examples specifying multiple latent constructs and parallel growth processes Ch 7 Discussion of alternatives for dealing with missing data and the use of sample weights within multilevel data structures Ch 1 The book opens with the conceptual and methodological issues associated with multilevel and longitudinal modeling followed by a discussion of SPSS data management techniques which facilitate working with multilevel longitudinal and cross classified data sets Chapters 3 and 4 introduce the basics of multilevel modeling developing a multilevel model interpreting output and trouble shooting common programming and modeling problems Models for investigating individual and organizational change are presented in chapters 5 and 6 followed by models with multivariate outcomes in chapter 7 Chapter 8 provides an illustration of multilevel models with cross classified data structures The book concludes with ways to expand on the various multilevel and longitudinal modeling techniques and issues when conducting multilevel analyses It's ideal for courses on multilevel and longitudinal modeling multivariate statistics and research design taught in education psychology business and sociology

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